

SYSTEM CASE STUDY: Waste Management TREE Landfill – New Hampshire



FAST FACTS

Project:

- ✓ bioFLOW MBR System for New England Landfill

Industry:

- ✓ Landfill Leachate

Application:

- ✓ Biochemical Oxygen Demand (BOD) Removal
- ✓ Total Suspended Solids (TSS) Removal
- ✓ Nitrification of Ammonia

bioFLOW MBR System Benefits/Highlights:

- ◆ Efficient reduction of BOD, nitrification and color removal
- ◆ Cost-effective
- ◆ Fully-automated MBR/RO process
- ◆ Compact footprint & modular

Problem:

The TREE Waste Management Landfill needed to upgrade their wastewater treatment system to meet the permitted discharge requirements.

Solution:

bioprocessH2O supplied a fully integrated and automated bioFLOW MBR System to meet the Local Industrial Discharge Permit requirements.

Status/Results:

The bioFLOW MBR System removes >98% of the influent parameters listed in the table below. The plant provides a robust biological treatment process and effective membrane performance.

System Design Criteria:

Parameter	Influent	Effluent
Wastewater Flow	289,300 GPD	-
BOD	2,093 mg/L	<20 mg/L
TSS	660 mg/L	<10 mg/L
NH4-N	1,483 mg/L	<5 mg/L
FOG	42 mg/L	<10 mg/L

Contact bioprocessH₂O today!

